

# Quick Setup Guide

## AirStation MIMO Wireless Broadband Router WZR-G108



# **BUFFALO™**

## **Preparation**

This Quick Setup Guide will quickly and easily guide through installing this product. For advanced setup and configuration instructions, please refer to the Online Manual on the AirNavigator CD-ROM or the Buffalo Support Web Page.

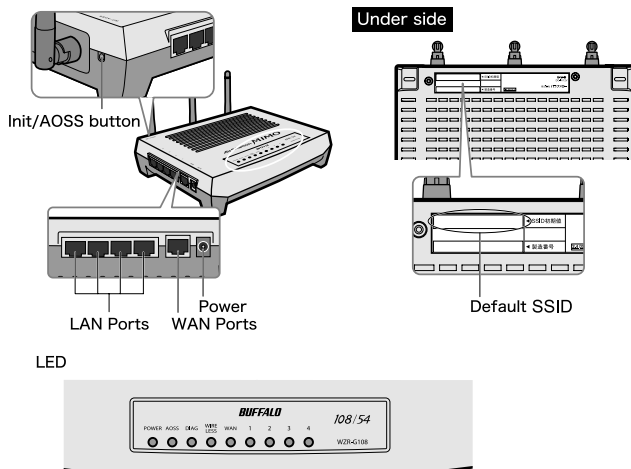
## **Package Contents Checklist**

- ▶ WZR-G108 Broadband Router
- ▶ Utility CD-ROM w/ User Manual
- ▶ Quick Setup Guide
- ▶ AC Adapter
- ▶ 7ft. Ethernet Cable
- ▶ Warranty Statement

If any of the contents are missing or damaged, please contact the retailer or reseller from which this product was purchased.

## Step 1 - Gathering Information

Depending on the type of broadband internet service you are subscribed to, different types of information may be needed to complete the setup. Acquiring this information in advance will make the setup of your AirStation router simple and quick. A quick call to your service provider's customer or technical support number will provide you with the needed information if you are unsure. If you are connecting to the internet via DSL service, then PPPoE information will most likely be required from your ISP.

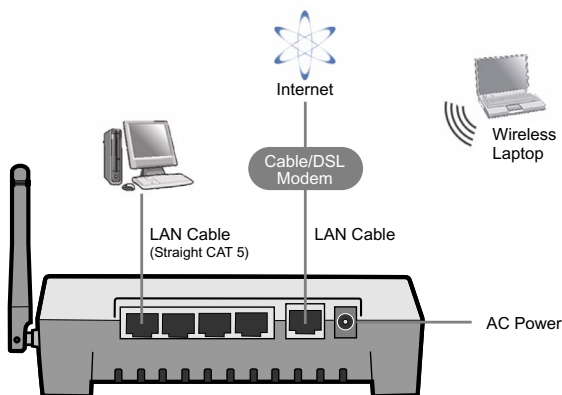


### Recording the AirStation's LAN MAC Address

The LAN MAC address of the AirStation is the default ESS-ID (SSID) and is found on the bottom of the AirStation body as shown in the illustration above.

MAC Addresses are 12-digit codes comprised of numbers and letters. When inputting MAC Addresses for custom configurations, a semi-colon (:) is used to separate every two digits. ex: **00:07:40:00:00:00**

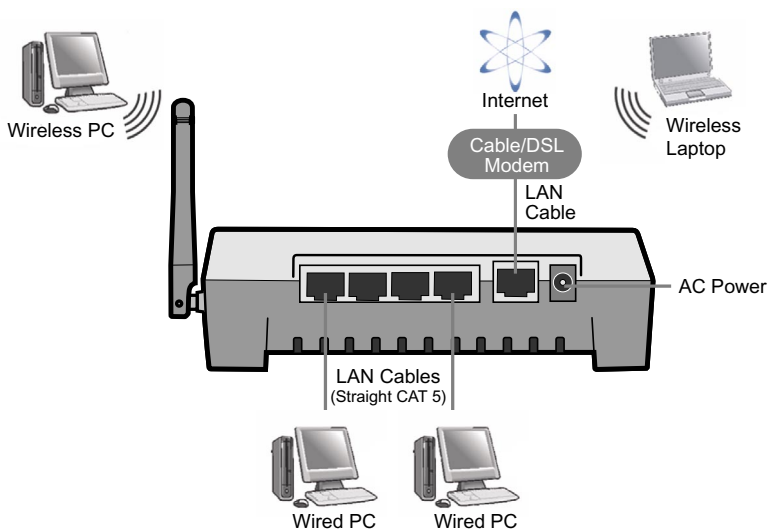
## Step 2 - Connecting Cables to the AirStation



1. Power down the cable or DSL modem and the computer which will be used to configure the AirStation router.
2. Plug the cable or DSL's LAN Ethernet cable into the AirStation's WAN port. Initially, you may need to unplug this cable from your computer, hub or other router.
3. Plug the provided Ethernet cable into a LAN port on the AirStation and plug the other end into your computer's Ethernet adapter's (NIC) port. If you plan to initially configure the AirStation wirelessly (not recommended), you may skip this step.
4. Power on your cable or DSL modem and wait one full minute, Power on the AirStation router, wait one full minute, and then power on the computer which will be used to configure the AirStation. If the red DIAG light on the AirStation is lit or flashing after several minutes of being powered on, please consult Buffalo Technology Technical Support.

## Deciding on a Mode for Initial AirStation Configuration

- ▀ **Wired Connection (recommended)**
- ▀ Wireless Connection



**Step 3 - If not already done in the previous step, connect your computer to the AirStation**

### ▀ **Wired Configuration**

Buffalo recommends using a wired connection, meaning your computer is physically connected to the AirStation with a CAT5 straight cable plugged into one of the four LAN ports. This type of setup will eliminate possible setup problems due to any issues with the wireless adapter on the computer being used to configure the AirStation.

## ► Wireless Configuration

■ NOTE: If configuring via a Wired Configuration, please skip to the next page!

### *Windows 2000/XP*

If there is no Ethernet adapter available on the computer being used to configure the AirStation, a wireless configuration may be performed using a correctly installed 802.11b or 802.11g wireless adapter.

To configure the AirStation via a wireless connection, establish a connection to the AirStation using the setup instructions that came with the wireless client card or adapter that you are using.

### *Windows 98SE/ME*

If there is no Ethernet adapter available on the computer being used to configure the AirStation, a wireless configuration may be performed using a correctly installed 802.11b or 802.11g wireless adapter.

To configure the AirStation via a wireless connection, establish a connection to the AirStation using the setup instructions that came with the wireless client card or adapter that you are using.

### *Identifying the Proper AirStation*

The default SSID of the AirStation is its LAN MAC Address which was addressed on **Page 2** of this Quick Setup Guide. Using your wireless card's software or Windows XP's Wireless Zero Config, connect to the Wireless Network that broadcasts the LAN MAC Address of your AirStation as its SSID. Please consult the documentation that came with your wireless client card or adapter for further assistance.

## Step 4 - Configure your Computer's IP Address

### For Windows 98SE/ME

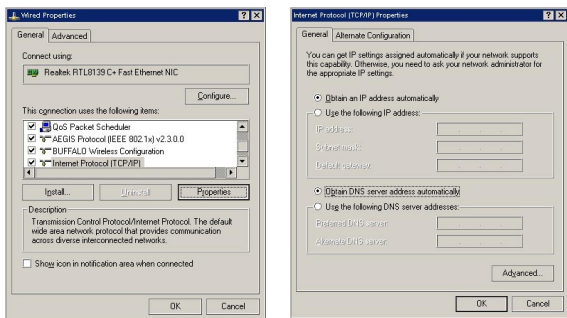
- Right-click on **Network Neighborhood** or **My Network Places** and select **Properties**.
- Select the **Configuration** tab, scroll down to TCP/IP and press **Properties**.
- Select **Obtain IP address automatically** and **Obtain DNS Server address automatically**.
- Click **OK** to close Internet Protocol (TCP/IP) Properties
- Click **OK** to close Network Connection Properties
- Close Network Connections window

### For Windows 2000/XP

- Click **Start => Settings => Control Panel**
- Double click on the **Network Connections** icon.
- Right-click on **Local Area Network Connection** and select **Properties**.

■ **NOTE:** If a wireless connection is being used, you will be required to right-click on the Wireless Connection and select Properties.

- Scroll down to Internet Protocol (TCP/IP) and press **Properties**.
- Select **Obtain IP address automatically** and **Obtain DNS Server address automatically**.
- Click **OK** to close Internet Protocol (TCP/IP) Properties
- Close Network Connections and Control Panel windows



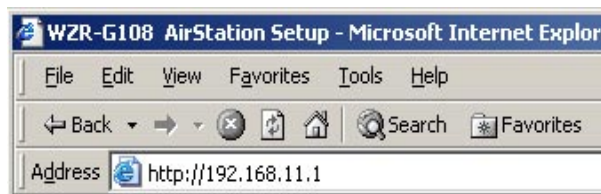
Refer to your Operating System documentation for further instructions on how to navigate to your TCP/IP Properties.

## Step 5 - Access the AirStation Configuration Pages

Launch your Web browser and type **192.168.11.1** in the address field of the Web browser window and click **“Go.”**

\*If you have previously modified the AirStation and changed the LAN IP address, enter the custom LAN IP address to access the AirStation configuration pages.

If at any time you wish to restore settings to factory defaults, press the red INIT/AOSS button on the rear of the AirStation for 6 seconds (AirStation must be powered on). During this process the red DIAG light will flash rapidly. Once the Red DIAG light has stopped flashing, and been turned off the AirStation has completed restoring its settings.



## Step 6 - Configure the AirStation



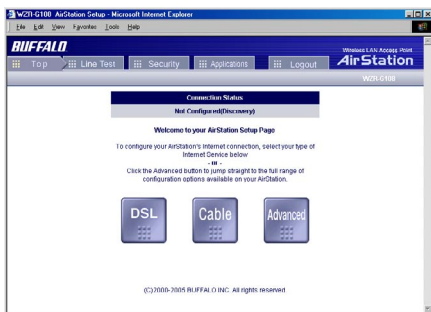
The User name and password field will open.

Enter **“root”** as the User name  
Leave the password field blank.

Click **OK.**

The first page of the configuration offers 3 distinct buttons for DSL, Cable, and Advanced settings. Select the appropriate type of internet service, referencing the information you collected during the preparation steps if needed.

***For future access to configuration, bookmarking this page is recommended***



### DSL

Select this option if your internet connection is provided by a DSL provider. Most DSL providers require PPPoE settings to be entered.

### Cable

Select this option if your internet connection is provided through your cable provider. Most cable providers require no additional settings except to obtain an IP.

■ **NOTE:** After selecting either the DSL or Cable wizard, please choose the proper selections that are applicable to your internet service provider. A verification test will be run at the end of the wizard.

### Advanced

Select this option for advanced settings of your AirStation. For more information on configuring advanced settings of your AirStation, please refer to the User Manual on the CD-ROM or the Buffalo Wireless Support Web Site: <http://www.buffalo-technology.com>

### Default Settings

If at any time you wish to restore settings to factory defaults, press the INIT / AOSS button on the rear side of the AirStation for 6 seconds (AirStation must be powered on). During this process the red DIAG light will be turned off after flashing rapidly. Once the Red DIAG light has stopped flashing, the AirStation has completed restoring its settings.

This completes the basic AirStation Configuration. To change advanced settings, please consult the Online Manual on the CD-ROM or go to the Buffalo Support Web Site: <http://www.buffalo-technology.com>



The AirStation can be re-configured anytime via a Web browser using a wired or wireless connection by entering **192.168.11.1** in the URL address field of the Web browser and pressing the **Enter** key on the keyboard.

### *Additional Information:*

#### **AOSS (AirStation One-Touch Secure System)**

The WZR-G108 supports Buffalo's AOSS system for connecting AOSS compatible wireless clients to the WZR-G108. For information about AOSS, please refer to the AOSS Supplement which is included in the WZR-G108 package contents.

#### **IP Addressing**

To verify your IP settings for static or automatic addressing, click **Start**, select **Settings** (if present) and click **Control Panel**. Within Control Panel, double-click **Network** or **Network Connections** depending on your Operating System. You can then right-click and select **Properties** for your wired or wireless connections. Within the properties, you can view the properties of your TCP/IP protocol.

Generally, you will want to be sure that "**Obtain an IP address automatically**" is selected to allow easier connections. To manually renew IP addressing configurations for your connection, follow these steps:

- ▶ Click **Start** and **Run**. A dialog box will appear where you can type **COMMAND** into the field provided and click **OK**.
- ▶ An MS-DOS prompt will launch. Enter **IPCONFIG /RELEASE** and press the **Enter** key on the keyboard to release your current IP configuration. Next, enter **IPCONFIG /RENEW** and press the **Enter** key to seek new settings from a DHCP server. (This may take a few moments).
- ▶ Type **IPCONFIG /ALL**. This will display all the IP configurations for your wired or wireless connection.
- ▶ The Default Gateway address listed in the results is usually the IP address of the AirStation. If no IP addresses are listed or your wireless adapter displays a **169.254.XXX.XXX** address, retrace the setup steps to verify correct installation.
- ▶ Type **EXIT** to close out the DOS window.

AOSS (AirStation One-Touch Secure System™) is a simple, one-touch setup for connecting wireless clients to an access point while setting up the most secure possible connection. Users no longer need to worry about choosing the proper security protocols, IP addresses, or ESS-ID's. The intelligence of AOSS determines the most optimal connection and configures itself in seconds.

**Note:** AOSS automatically creates a secure connection between your AOSS Access Point and client. You must have a Buffalo AOSS enabled wireless client device to use the AOSS features of your AOSS Access Point/Router.

- ▶ Configure your WZR-G108's network connection by referring to the above mentioned instructions.
- ▶ Once the WZR-G108 has been configured, follow the directions to install your wireless client device and its drivers if necessary. Certain wireless client adapters require client software to configure them. If your device has a Client Manager, then install it as well.

**Note:** If the wireless client adapter is installed on a PC, then the AOSS client manager will need to be installed as well. If your wireless client adapter is a standalone device that does not require a PC, then just power up the device.

**Standalone Devices:**

Ethernet Converters and  
Access Point Bridges

**Client Manager Devices:**

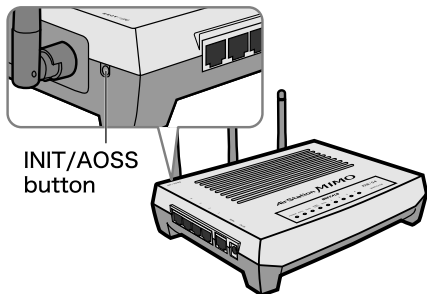
CardBus, USB, and PCI Adapters



**Standalone**  
AOSS Device



**Client Manager**  
Device



- ▶ Now that the WRZ-G108 and wireless client adapter are installed, you can use AOSS to configure them.
- ▶ To begin the configuration, press the INIT/AOSS button on the back of the WZR-G108 chassis until the AOSS LED on the front begins to flash.

AOSS Mode is now active.

**Note:** AOSS mode will stay active for a period of two minutes. This is the time-slot required to initiate the wireless client adapter.

**Note:** Please let go of the button immediately after the LED start flashing. If you press the button for more than 6 seconds, not AOSS but INIT mode become active.

- ▶ Refer to your wireless client adapter's AOSS supplement to initiate the wireless client adapter's AOSS mode.
- ▶ Once the client adapter has begun communicating with the AOSS router, the AOSS client will report a successful AOSS connection. This indicates that the AOSS process has begun and the two devices are configuring themselves. At this time, the AOSS Light on the WZR-G108 will become solid. Please refer to your wireless client adapter's supplement for the remainder of the setup.

#### **Additional AOSS Information:**

- ▶ Only one AOSS wireless client adapter can be configured to the AOSS access point at a time. Thus, the button will need to be repressed for each additional AOSS wireless client adapter that will be connected.
- ▶ It is not necessary to AOSS client devices that have already been configured via AOSS, unless significant changes have been made to the wireless network.
- ▶ Do not attempt to configure two separate AOSS networks at the same time, as it may cause undesired configurations.
- ▶ If an undesired client has connected via AOSS, it can be disconnected from within the WZR-G108's advanced configuration AOSS menus.

## **Buffalo Technology** **Technical Support**

Buffalo Technology offers Toll-Free Technical Support 24 hours a day, 7 days a week for this product. Customers in the United States and Canada can obtain technical support using the following information:

- ▶ Online Help: Available on the AirNavigator CD enclosed with your purchase.
- ▶ Web [www.buffalotech.com](http://www.buffalotech.com)
- ▶ E-mail [info@buffalotech.com](mailto:info@buffalotech.com)
- ▶ Telephone 866-752-6210 (USA & Canada only)

The constantly evolving state of wireless products and operating systems requires Buffalo Technology to occasionally release updated software to take advantage of new technologies and to comply with industry standards. For the most recent software, firmware, driver, and technical whitepaper releases available, please visit the Buffalo Technology website.

**FCC Compliance Statement** - See owners manual for complete statement. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**R&TTE Compliance Statement** - See owners manual for complete statement. This equipment complies with all the requirements of the DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

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\* When operating in High-Speed Mode, this Wi-Fi device achieves an actual throughput of up to 34.1 Mbps, which is the equivalent throughput of a system following 802.11g protocol and operating at a signaling rate of 125 Mbps.